



Virtual NetVCR™

Network monitoring gets cloud ready

DATASHEET

Features & Benefits

- » *Brings the unequalled real-time analysis and deep forensic power to a virtualized or cloud environment*
- » *Hosted in a virtual server; reduces hardware footprint to support infrastructure scaling*
- » *Eliminates network blind spots with proactive monitoring of traffic within a virtual server*
- » *Helps generate a unified view of virtual and physical network environments*
- » *Today's best solution for performance and security monitoring of virtualized environments, leading to reduced TCO*
- » *Quick and easy centralized deployment, configuration and control*
- » *Reduces power consumption leading to increased energy efficiency*
- » *Heterogeneous Hypervisor Support (OpenStack, VMWare ESX/ESXi and vSphere, Oracle VM, AWS, KVM, etc.)*

The benefits associated with virtualization have led to the proliferation of virtual networks and the explosion of cloud computing. Both public clouds that share infrastructure, and private clouds that operate behind a firewall, present new security and performance problems, which have complicated the deployment of otherwise appealing new technologies. Total visibility into the virtual network infrastructure and cloud environments, in terms of availability and performance of virtual applications, is just as critical as insight into the physical network. Security risks are just as real, but more difficult to diagnose.

Solution

NIKSUN's Virtual Appliances are real-time data capture and analysis devices that reside within a virtual server. They glean insight into the performance and security of the cloud network by recording and analyzing all traffic directed to it, from either virtual or physical segments. Equipped with the uniquely powerful, award-winning NIKSUN® technology, these appliances bring the strengths of NIKSUN NetVCR® and NetDetector® – full packet capture and network performance analysis, and today's most advanced network forensic tool – into virtual and cloud environments. Data from distributed virtual appliances can now be aggregated and viewed on a central NetOmni™ console, not only for a unified view but also for more effective security and performance management.

Reduce Complexity

Virtual Appliances reduce the cost and complexity associated with adding physical hardware to the existing infrastructure. Out-of-the-box features reduce implementation time and costs so you're up and running fast. Appliances can be deployed across multiple virtual servers and within a private or public cloud for complete monitoring across the virtual infrastructure, providing a total view of the virtual world.

The deployment is a seamless process managed by the NIKSUN Virtual Controller. Users can easily deploy the software-only appliances through a simple point and click process.

Proactive Virtual Performance Monitoring

Virtual NetVCR™ continuously monitors virtual application traffic in real-time for proactive discovery of applications and services. Servers host a number of virtual applications within them, which

typically communicate with each other. This generates a significant amount of network traffic which can tax service levels. Highly automated processes with high service level expectations in terms of availability, data protection, and response turn around, are important for mission critical applications no matter if you are inside or outside cloud architecture. Virtual NetVCR quickly analyzes traffic characteristics and patterns within these environments to detect and immediately address any changes that may impact service levels. Performance analysis of virtual traffic is done via loss, latency, service and application response time, goodput, throughput and other similar metrics.

Virtual NetVCR provides a recording capacity of 1 Gbps per instance, so as your network grows, you can add as many instances as needed to seamlessly match the growth of your network.

Unified View of All Network Traffic

While data from all distributed virtual appliances can be viewed on NIKSUN NetOmni™ for a complete picture of a virtualized enterprise environment, traffic from deployed appliances can also be pulled into NetOmni to present a unified view of all traffic across the virtual, LAN, WAN and MAN environments.

As organizations move towards virtualization, as well as public and private cloud networks, NIKSUN's Virtual Appliances ensure visibility into both the existing physical, virtual and cloud infrastructure, providing a comprehensive platform that ensures the integrity of all facets of the network.

Technical Information

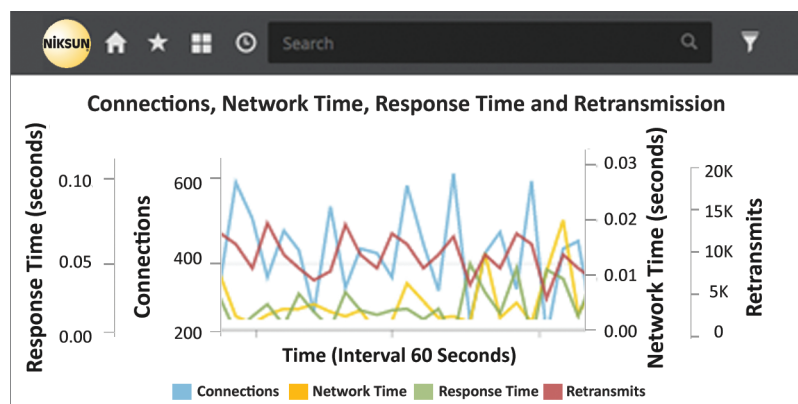
- » **Models:** Virtual NetVCR, Virtual NetDetector
- » **Database Size:** 8TB
- » **Network Interface:** 1 Gbps / 10 Gbps
- » **Scaleability:** unlimited instances for continuous growth and scaleability
- » **Hypervisor Support and Management:** OpenStack; VMWare ESX/ESXi and vSphere; Oracle VM 3.3.1; KVM.

Supported Protocols: TCP, UDP, SCTP, IPv4, IPv6, fragmented IP, IEEE 802.3 (Ethernet), Ethernet MPLS, VLAN (ISL, IEEE 802.1q and stacked 802.1q), DNS, ICMP, HTTP, HTTPS, MSSQL, Oracle QinQ, Multicast, ISO8583, FIX, GTP, SIP, CDMA 2000, RADIUS, Diameter and many more.

Integration: Authentication - TACACS+, RADIUS, CAC, LDAP and Active Directory. All NIKSUN products integrate with NIKSUN NetOmni™ Full Suite for enterprise-wide aggregation, reporting and visualization.

Interested in learning more?

For more information, please visit us online at niksun.com.



Real-time Traffic Analysis



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About NIKSUN, Inc. NIKSUN is the recognized worldwide leader in making the Unknown Known. The company develops a highly scalable array of real time and forensics-based cyber security and performance management solutions for large enterprises, government & intelligence agencies, service providers and financial services companies. NIKSUN's award winning enterprise solutions deliver unprecedented flexibility and packet capture power. The company's patented real-time analysis and recording technology is the industry's most comprehensive solution for secure and reliable network infrastructure and services. NIKSUN, headquartered in Princeton, New Jersey, has sales offices and distributors throughout the US, Europe, the Mid East and Asia-Pacific. For more information, please visit www.niksun.com.

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